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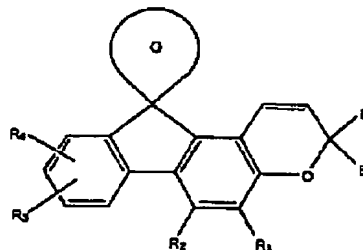
(54) PHOTOCROMIC SPIROFLUORENOPYRAN AND ITS USE**(57) Abstract:**

PROBLEM TO BE SOLVED: To obtain a compound having a desirable lightening effect and being useful for e.g. a lens by selecting a specified photochromic spirofluoreno-pyran.

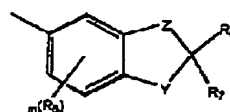
SOLUTION: A photochromic spirofluoreno-pyran of formula I is selected. In formula I, R₁ is a 1-6C alkyl, a 1-6C alkoxy, phenyl, Br, Cl, or F; R₂ to R₄ are each H or R₁; G together with the spiro carbon atoms forms a five- to eight-membered ring joined with at least one aromatic or aromatic-heterocyclic ring system in which the ring system is benzene, naphthalene, phenanthrene, pyridine, quinoline, furan, or the like; B and B' are each (a) a (substituted)phenyl or a (substituted)naphthyl, (b) a (substituted)heterocyclic compound, (c) a group of formula II or III, or (d) a (substituted)fluoren-9-ylidene or a saturated hydrocarbon group being a 3-12C spiromonocyclic group, a 7-12C spirobicyclic group, or a 7-12C spirotricyclic group. In formulae II and III, Y and

Z are O, S, CH, CH₂, or NR; R₅ is R₁ or OH; (m) is 0-2; R₆ and R₇ are each H or a 1-6C alkyl; and R is R₆, a 1-6C acyl, or phenyl.

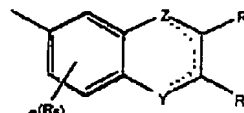
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I



II



III